## **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/06/02 Date Received: 10/31/02

Project: Metro Self Monitor, PO# M89446

Date Extracted: 11/04/02 Date Analyzed: 11/04/02

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID				
M89446	0.30	0.26	0.22	< 0.05
210273-01	LANCE OF SERVICE			
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/06/02 Date Received: 10/31/02

Project: Metro Self Monitor, PO# M89446

# QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 210143-01 (Duplicate)

	LANCE OF THE PARTY OF THE STATE			Relative	
	Reporting	Sample	Duplica	te Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.51	0.53	4	0-20
Copper	mg/L (ppm)	0.60	0.61	2	0-20
Nickel	mg/L (ppm)	0.55	0.56	2	0-20
Zinc	mg/L (ppm)	0.06	0.11	а	0-20

Laboratory Code: 210143-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.51	89	80-120
Copper	mg/L (ppm)	2	0.60	90	80-120
Nickel	mg/L (ppm)	4	0.55	89	80-120
Zinc	mg/L (ppm)	2	0.06	91	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike %	Recove	ry % Recove	ery Acceptanc	e RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	95	96	80-120	1
Copper	mg/L (ppm)	2	92	94	80-120	2
Nickel	mg/L (ppm)	4	94	96	80-120	2
Zinc	mg/L (ppm)	2	94	94	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 6, 2002

#### **DUPLICATE COPY**

#### **INVOICE #02ACU1106-1**

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M89446 - Results of testing requested by Gerry Thompson for material submitted on October 31, 2002.

FEDERAL TAX ID #(b) (6)

210	5273		ME
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	Send Report Te	PROJECT NAME/NO	PO# □ St

SAMPLERS (signature)	
PROJECT NAME/NO.	PO #
METROSESmonde	n M8746
REMARKS	

Page #	of	
TURNARO	UND TIME	
☐ Standard (2 W	eeks)	
□ RUSH		
Rush charges au	thorized by:	
CAMPI D	DIGDOGAI	ŀ
	DISPOSAL	
☐ Dispose after	ne 2 - 10210	1
☐ Return sample		1
□ Will call with:	instructions	L

10/31/02 AI4

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						_				ANA	LYS	ES REQ	OFPL	ED	 -	<del></del>
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diésel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	ach wish				Notes
M89446	01	10/31/02	12:30	HZO	1		**				•	0				
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Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Phone #200-782-8379 Fax #206-782-4709

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relingues by:	9. Thorpson	ACN	10/31/07	1:08pm
Received by:	Laura Hooper	FBI.		1
Relinquished by:				
Received by:				

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#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 6, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 31, 2002 from your Metro Self Monitor, PO# M89446 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Mitfal

Michael Erdahl Project Manager

Enclosures ACU1106R.DOC